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<110> Yu, Guo-Liang
Ni, Jian
Rosen, Craig A.

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25

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Cys Leu Leu His Phe Gly Val Ile Gly Pro Gln Arg Glu Glu Phe Pro
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Arg Asp Leu Ser Leu Ile Ser Pro Leu Ala Gln Ala Val Arg Ser Ser
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Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val Val Ala Asn Pro
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Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu Val Val Pro Ser
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Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe Lys Gly Gln Gly
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Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile Ser Arg Ile Ala
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Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala Ile Lys Ser Pro
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Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys Pro Trp Tyr Glu
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Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys Gly Asp Arg Leu
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Ala His Leu Ile Gly Asp Pro Ser Lys Gln Asn Ser Leu Leu Trp Arg
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Ala Asn Thr Asp Arg Ala Phe Leu Gln Asp Gly Phe Ser Leu Ser Asn
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Asn Ser Leu Leu Val Pro Thr Ser Gly Ile Tyr Phe Val Tyr Ser Gln
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Val Val Phe Ser Gly Lys Ala Tyr Ser Pro Lys Ala Thr Ser Ser Pro
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Leu Tyr Leu Ala His Glu Val Gln Leu Phe Ser Ser Gln Tyr Pro Phe
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His Val Pro Leu Leu Ser Ser Gln Lys Met Val Tyr Pro Gly Leu Gln
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Glu Pro Trp Leu His Ser Met Tyr His Gly Ala Ala Phe Gln Leu Thr
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Ala Gln Gln Gly Leu Gly Phe Gln Lys Leu Pro Glu Glu Pro Glu
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Thr Asp Leu Ser Pro Gly Leu Pro Ala Ala His Leu Ile Gly Ala Pro
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Leu Lys Gly Gln Gly Leu Gly Trp Glu Thr Thr Lys Glu Gln Ala Phe
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Leu Thr Ser Gly Thr Gln Phe Ser Asp Ala Glu Gly Leu Ala Leu Pro
 115 120 125

Gln Asp Gly Leu Tyr Tyr Leu Tyr Cys Leu Val Gly Tyr Arg Gly Arg
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Ala Pro Pro Gly Gly Asp Pro Gln Gly Arg Ser Val Thr Leu Arg
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Ser Ser Leu Tyr Arg Ala Gly Gly Ala Tyr Gly Pro Gly Thr Pro Glu
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Leu Leu Leu Glu Gly Ala Glu Thr Val Thr Pro Val Leu Asp Pro Ala
 180 185 190

Arg Arg Gln Gly Tyr Gly Pro Leu Trp Tyr Thr Ser Val Gly Phe Gly
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Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Pro Pro Pro Pro Leu Pro
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Pro Leu Pro Leu Pro Pro Leu Lys Lys Arg Gly Asn His Ser Thr Gly
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Leu Cys Leu Leu Val Met Phe Phe Met Val Leu Val Ala Leu Val Gly
 85 90 95

Leu Gly Leu Gly Met Phe Gln Leu Phe His Leu Gln Lys Glu Leu Ala
 100 105 110

Glu Leu Arg Glu Ser Thr Ser Gln Met His Thr Ala Ser Ser Leu Glu
 115 120 125

Lys Gln Ile Gly His Pro Ser Pro Pro Pro Glu Lys Lys Glu Leu Arg
 130 135 140

Lys Val Ala His Leu Thr Gly Lys Ser Asn Ser Arg Ser Met Pro Leu
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Glu Trp Glu Asp Thr Tyr Gly Ile Val Leu Leu Ser Gly Val Lys Tyr

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165 170 175

Lys Lys Gly Gly Leu Val Ile Asn Glu Thr Gly Leu Tyr Phe Val Tyr
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195 200 205

His Lys Val Tyr Met Arg Asn Ser Lys Tyr Pro Gln Asp Leu Val Met
210 215 220

Met Glu Gly Lys Met Met Ser Tyr Cys Thr Thr Gly Gln Met Trp Ala
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Cys Leu Leu His Phe Arg Val Ile Gly Pro Gln Glu Glu Gln Ser
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Pro Asn Asn Leu His Leu Val Asn Pro Val Ala Gln Met Val Thr Leu
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Arg Ser Ala Ser Arg Ala Leu Ser Asp Lys Pro Leu Ala His Val Val
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Ala Asn Pro Gln Val Glu Gly Gln Leu Gln Trp Leu Ser Gln Arg Ala
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Val Pro Ala Asp Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe Ser
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Gly Gln Gly Cys Arg Ser Tyr Val Leu Leu Thr His Thr Val Ser Arg
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Phe Ala Val Ser Tyr Pro Asn Lys Val Asn Leu Leu Ser Ala Ile Lys
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Ser Pro Cys His Arg Glu Thr Pro Glu Glu Ala Glu Pro Met Ala Trp
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gaagataaaa ctttctttgg agccttctta ctataggagg agagcaaata tcattatatg 240

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ggaaatgaac ctctgaantg ccagtgaaaa tcagncaagc aggccgacca aacaagccag 180
antccatnca ctgtggcat caccaaggta acagacagct accctgagcc aacccagctc 240
cttcatgggg accaagtttgc ttgcgaant aggttagcaa ctggttccag cccatttac 300
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Ala	Arg	Trp	Ala	Leu	Thr	Cys	Cys	Leu	Val	Leu	Leu	Pro	Phe	Leu	Ala
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Gly	Leu	Thr	Thr	Tyr	Leu	Leu	Val	Ser	Gln	Leu	Arg	Ala	Gln	Gly	Glu
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Ala	Cys	Val	Gln	Phe	Gln	Ala	Leu	Lys	Gly	Gln	Glu	Phe	Ala	Pro	Ser
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His	Gln	Gln	Val	Tyr	Ala	Pro	Leu	Arg	Ala	Asp	Gly	Asp	Lys	Pro	Arg
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18
85 90 95

Ala His Leu Thr Val Val Arg Gln Thr Pro Thr Gln His Phe Lys Asn
100 105 110

Gln Phe Pro Ala Leu His Trp Glu His Glu Leu Gly Leu Ala Phe Thr
115 120 125

Lys Asn Arg Met Asn Tyr Thr Asn Lys Phe Leu Leu Ile Pro Glu Ser
130 135 140

Gly Asp Tyr Phe Ile Tyr Ser Gln Val Thr Phe Arg Gly Met Thr Ser
145 150 155 160

Glu Cys Ser Glu Ile Arg Gln Ala Gly Arg Pro Asn Lys Pro Asp Ser
165 170 175

Ile Thr Val Val Ile Thr Lys Val Thr Asp Ser Tyr Pro Glu Pro Thr
180 185 190

Gln Leu Leu Met Gly Thr Lys Ser Val Cys Glu Val Gly Ser Asn Trp
195 200 205

Phe Gln Pro Ile Tyr Leu Gly Ala Met Phe Ser Leu Gln Glu Gly Asp
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caagaagggg acnagctaat ggtgaacgta agtgacatct ctttgtgga ttacacaaaa 180
gaagataaaaa ccttctttgg agccttctta ctataggagg agagcaaata tcattatatg 240
aaagtccctct gccaccgagt tcctaatttt ctttgtcaa atgtaattat aaccaggggt 300
tttcttgggg ccgggagtag gggcattcc cacagggaca acggtttagc tatgaaattt 360
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458

a3
Cont